

### **EXPERT REPORT OF DR. ALAN R. PRICE**

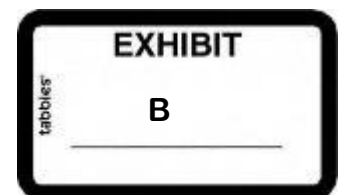
I have been retained by counsel for Dr. Carlo Croce, a Distinguished Professor of Cancer Biology and Genetics at The Ohio State University (OSU), to provide my opinion regarding statements made by Dr. David Sanders, Associate Professor of Biological Sciences, Purdue University, who made multiple public allegations of falsification and plagiarism constituting possible research misconduct on the part of Dr. Croce. It is my opinion after review of these allegations and related documents, based upon my background, education and experience, to a reasonable degree of professional certainty, that the allegations and evidence reviewed do not support any allegations made by Dr. Sanders that Dr. Croce engaged in falsification, plagiarism or research misconduct as those terms are defined by the National Institute of Health (NIH) and by The Ohio State University (OSU) Rules Concerning Research Misconduct and as understood and used in the academic community.

#### **Background**

I earned a Ph.D. in Biochemistry at the University of Minnesota, and I was a postdoctoral fellow at Michigan State University in Biochemistry. From 1970 until 1981, I worked at the University of Michigan Medical School, first as Assistant, then tenured Associate, Professor, and later as Assistant Dean for Research Development. From 1981 until 1987, I served as Assistant Vice President and Acting Associate Vice President for Research for the University of Michigan. From 1987 to 1992, I worked at the National Institutes of Health (NIH) in Bethesda, Maryland, as Program Officer in Genetics of Aging, Human Subjects Protection Officer, and Senior Scientist and Assistant Director in the Office of Scientific Integrity (OSI). From 1992 until my retirement in 2006, I worked in the Office of Research Integrity (ORI) at the U.S. Public Health Service (PHS) within the federal Department of Health and Human Services (HHS), first as the Chief of the Investigations Branch (1992-1999), then as the Acting Director of the Division of Investigative Oversight (DIO) (1999-2000), and then as the Associate Director for Investigative Oversight to 2006. A complete copy of my Curriculum Vitae is located at Appendix, Exh. 1.

From 1989 to 2006, we in OSI/ORI handled more than 3,000 allegations/queries and more than 700 formal inquiries or investigations, and we made more than 175 findings of scientific/research misconduct. During my last decade in ORI, I reviewed and handled all of the allegations received by ORI from individuals, institutions, and the NIH, which receives applications for, and awards most of, the HHS funding for biomedical research. My staff and I also personally reviewed and analyzed all of the reports of inquiries and investigations received from hospitals, universities, and other research institutions funded by HHS/NIH research grants. Thus, no one person in the United States may have seen, handled, and resolved more allegations, investigations, and overseen cases of scientific/research misconduct than I have.

I know from personal decision-making and experience what ORI considers to be scientific/research misconduct and what does not, as well as what ORI expects of research institutions in carrying out their duties in responding to allegations of research misconduct as required by the PHS Regulations at *42 CFR Part 93* (the "Regulations"). During the past thirteen years, I have been consulting formally with individuals and institutional officials on such matters, as Price Research Integrity Consultant Experts (PRICE).



My curriculum vitae (Appendix, Exh. 1) includes all publications that I have authored and conference presentations that I have made. In the past ten years, I have published 2 papers:

(1) Price, Alan R., “Research misconduct and its federal regulation: the origin and history of the Office of Research Integrity – with personal views by ORI’s former Associate Director for Investigative Oversight,” *Accountability in Research* 20: 291–319 (2013).

(2) Price, Alan R., and Daroff, Robert, “Historical Model for Editor and Office of Research Integrity Cooperation in Handling Allegations, Investigation, and Retraction in a Contentious Case (Abbs) of Research Misconduct,” *Accountability in Research* 22: 63-80 (2015).

### Compensation

I have not testified in the past four years in court; I was deposed in 2018 for a pending civil suit in Rhode Island. For my work on this engagement, I have billed \$250 per hour. Going into deposition/testimony time, I will bill at \$400 per hour, plus out-of-pocket travel expenses.

### Documents Reviewed

I have based my opinions expressed in this report on my review of the documents provided to me by counsel for Dr. Croce, listed in Appendix, Exh. 2.

## **I. THE ORI/PHS REGULATIONS AND UNIVERSITY POLICY REQUIREMENTS**

### **A. PHS Regulations on Research Misconduct**

Under federal law, any institution that applies for or receives HHS funding for biomedical or behavioral research must take actions to ensure the integrity of all HHS-supported research, including having primary responsibility for responding to and reporting allegations of research misconduct. Each institution applying for or receiving HHS-supported funding must comply with the HHS/PHS Regulations on research misconduct, entitled the "Public Health Services Policies on Research Misconduct." (42 CFR Part 93) These Regulations define “research misconduct” as: “fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results. (a) Fabrication is making up data or results and recording or reporting them. (b) Falsification is manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record. (c) Plagiarism is the appropriation of another person’s ideas, processes, results, or words without giving appropriate credit. (CFR § 93.103)

These Regulations also state that research misconduct “does not include honest error or differences of opinion,” and they require that for any finding of research misconduct “[t]here be a significant departure from accepted practices of the relevant research community” as well as that,

“[t]he misconduct be committed intentionally, knowingly, or recklessly” (*CFR § 93.104(a) and (b)*) Any such misconduct must be proved by a preponderance of the evidence. (*CFR § 93.104(c)*) and (*CFR § 93.106(a) and (b)*) The Regulations also require “due consideration to admissible, credible evidence of honest error or difference of opinion presented by the respondent.” (*CFR § 93.107(2)*)

B. Ohio State University Policy

The “University Policy and Procedures Concerning Research Misconduct” for OSU, found at [http://orc.osu.edu/files/Misconduct\\_Policy.pdf](http://orc.osu.edu/files/Misconduct_Policy.pdf), states:

First, the University wishes to protect both the integrity and the reputation of research and scholarship produced by members of the University community... The second objective served by this Policy is to protect the integrity and reputation of the University and its scholars from false or unproven allegations of research misconduct. For this reason, the University assumes that a person accused of research misconduct is innocent of any allegations until the contrary has been established by a final decision reached under this Policy and the applicable disciplinary rules or procedures.

(OSU Policy, Sec. I, Para. A)

Moreover and importantly, OSU’s Policy (Sec. III, Para. A) uses the same definition as the federal Regulation cited above.

**II. Public Statements reportedly made by Dr. Sanders about Dr. Croce**

Dr. Sanders reportedly made statements to members of the national press, who published these statements:

A. *New York Times (NYT)* article.

*New York Times* reporter James Glanz began communicating regularly with Dr. Sanders about Dr. Croce’s research papers beginning in August 2016 (Glanz email, DS00003121), after being introduced by *NYT* reporter Ben Carey, who had been contacted by Dr. Sanders in June 2015 (Carey email, DS00002854).<sup>2</sup> In November 2016, Mr. Glanz sent a letter to OSU citing allegations of research misconduct on the part of Dr. Croce, that he attributed to Dr. Sanders.<sup>3</sup> Mr. Glanz, with

<sup>2</sup> Dr. Sanders stated in his email to Mr. Carey on January 26, 2016, in regard to a NCI Outstanding Investigator Award being given to Dr. Croce: “CC is being rewarded for his misconduct.” (DS00002868)

<sup>3</sup> Mr. Glanz wrote in his November 23, 2016, letter to OSU:

2. Dr. Sanders argues - because in his observation the image fabrication, duplication and mishandling, and plagiarism in Dr. Croce's papers is routine and because the authors routinely dispute those allegations when confronted with them through the journals - that Dr. Croce is knowingly engaging in scientific misconduct and fraud. (p. 1, DS00000001)

Agustin Armendariz, published an article on the front page of the NYT digital version on March 7, 2017. This article was published on March 9, 2017, on the front page of the *NYT* print version, under the headline, “Years of Ethics Charges but Star Cancer Researcher Gets a Pass.” <https://www.nytimes.com/2017/03/08/science/cancer-carlo-croce.html>

The *NYT* article stated:

Since 2014, another critic, David A. Sanders, a virologist who teaches at Purdue University, has made claims of falsified data and plagiarism directly to scientific journals where more than 20 of Dr. Croce’s papers have been published. It’s a “reckless disregard for the truth,” Dr. Sanders said in an interview...

David A. Sanders, a virologist at Purdue University, has concluded that the blots in at least three lanes in Figure 1B in a 2005 paper by Dr. Croce were improperly duplicated...

After receiving several tips on Dr. Croce’s work, Dr. Sanders said, he decided to undertake yet another moonlighting effort: as a “freelance ethicist.” “A lab that is engaging in violating scientific norms is being rewarded for that very effort,” he said.

Dr. Sanders posted the *NYT* Article to his Twitter page (@DavidSandersRep) on March 8, 2017, with the claim the article “features my role as a datamanipulation archaeologist.”

#### **B. *USA Today (USAT)* article**

Dr. Sanders did not stop with the *NYT*. A reporter, Meghan Holden, for *Lafayette Journal & Courier*, an affiliate of the USA TODAY Network, contacted Dr. Sanders soon after the *NYT* article appeared, and she wrote an article published March 22, 2017, in *USA TODAY* and the affiliate’s newspaper.

[available at <https://www.jconline.com/story/news/college/2017/03/22/purdue-biologist-calls-out-cases-scientific-misconduct/99449866/> ]

The *USAT* Article stated:

But that didn't stop Sanders from alleging that Dr. Carlo Croce, a prominent cancer researcher at Ohio State University, falsified data or plagiarized text in more than two dozen articles Croce has authored. For the past two-plus years, Sanders has contacted scientific journals in which the articles appeared to alert them of his concerns. Earlier this month, he went more public with his claims in an investigative piece by the New York Times that delved into years of ethics charges against Croce.

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7. Has Dr. Croce informed Ohio State of the misconduct charges that Dr. Sanders has been sending to the journals? (p. 2, DS00000002)

"There are, and I anticipate there will be additional, consequences for my career," Sanders said.... He doesn't view the act of calling out his peers as a risk, however. "I see that as an obligation," he said.

Sanders was tipped off to possible discrepancies within some of Croce's articles and started to dig in from there. What Sanders found was what he calls a pattern of data being duplicated within either the same article or within other papers in which Croce is listed as an author. He said he also found acts of textual plagiarism.

"If you wanted to just make up data you could do it in a way that's much more difficult to detect, but they didn't because they were able to get away with this relatively simple manipulation," Sanders said. "They continued to do it over and over again."

"The fact that they're getting (grants) having engaged in this activity means somebody else who is honest is not receiving them," Sanders said.

Dr. Sanders posted the *USAT* Article to his Twitter page (@DavidSandersRep) on March 22, 2017.

### **III. Private Statements by Dr. Sanders to OSU officials**

In addition to the *NYT* and *USAT* statements, Dr. Sanders also made statements to OSU officials about his concerns and allegations about numerous papers including Dr. Croce as a coauthor, on March 27, 2017, June 14 and 16, 2017, October 3, 2017, August 24, 2018 and February 25, 2019.

In his statements to the OSU officials who handle accusations of research misconduct, Dr. Sanders over raised more than 200 specific, detailed concerns about falsification and plagiarism in publications by Dr. Croce and his coauthors.

### **IV. Opinions**

As detailed above, statements were published in March 2017 by two sets of reporters, for the nationally widely-read *NYT* and *USAT*, which they attributed to Dr. Sanders. Dr. Sanders in turn immediately gave these statements further publicity by tweeting them @DavidSandersRep, and linking to the Twitter page of the *NYT* reporter. Thus, Dr. Sanders talked to these reporters and others<sup>5</sup> purposefully, wanting to assure publication of his allegations against Dr. Croce.

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<sup>5</sup> Dr. Sanders had also corresponded in the summer of 2014 with another science journalist abroad, Peter Aldhous, about publicizing in *Nature* his allegations about Dr. Croce's papers, in a "misconduct" context:

– August 13, 2014, Aldhous followup email to Sanders (DS00004336)

Hi, David. I'm still waiting for Nature to confirm whether they're interested in this.. I think there

### Falsification, Plagiarism and Research Misconduct Defined

Dr. Sanders' accusations that Dr. Croce engaged in falsification, plagiarism and research misconduct are false, in my opinion, based on the lack of evidence against Dr. Croce in the documents that I have reviewed. Each is addressed separately below.

#### Falsification

As previously noted, "falsification" is defined by both PHS and OSU as "manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record." Here, I have seen no evidence that Dr. Croce engaged in "manipulate[ing] research materials, equipment or processes," or "change or omit data or results" in any of the papers that Dr. Sanders pointed out. The images that were the subject of Dr. Sanders' falsification claims were created, based on the evidence and testimony available to me, by someone else, not by Dr. Croce (see list, Exh. 3).

The accusations of falsification made by Dr. Sanders against Dr. Croce were discussed in Dr. Sanders' deposition. His answers to questions<sup>6</sup> made clear that he had made the allegations without actually knowing whether Dr. Croce was involved in creating these questioned images.

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will be some debate over how hard to push on circumstances like these in the light of this tragedy.

– August 13, 2014, Sanders response email to Aldhous (DS00004336)

Peter... I agree there needs to be careful considering in matters such as these cases. However, if there is an outside responsibility to be borne in such tragedies, it is by the researchers who have committed the misconduct and exposed colleagues, mentors, and institutions to reproach. A message to the scientific community that data manipulators and plagiarists are treated with impunity is not the appropriate outcome. David

<sup>6</sup> An Exhibit# 68 was presented to Dr. Sanders at his deposition, which identified the allegations of falsification that he had previously made against Dr. Croce. He was questioned as to whether or not it was a complete list and whether he knew who had created the questioned images. He replied that he did not remember allegations # 20, 21, 23 or 24, so he did not know who actually created them, and he was unsure about #3 and 14 as well. (Sanders 3/28/2019 deposition, pp. 140-143). He then answered a direct question about Dr. Croce: "Q: "Okay. Do you know, Dr. Sanders, whether or not Dr. Croce saw any of the images in the manuscripts identified in Exhibit 68 before they were published? A: I do not know." (Sanders 3/28/2019 deposition, p. 144)



Here I assume that Dr. Croce has denied<sup>7</sup> that he prepared any of the images that are the subject of Dr. Sanders' falsification claims. Given that Dr. Sanders admitted in his deposition that he had no information that Dr. Croce himself was involved in creating such images for publication, then if Dr. Croce was not involved in the preparation of the images (and did not have them changed) that were the subject of Dr. Sanders' complaints, he could not have engaged in image falsification, and Dr. Sanders' accusations against Dr. Croce that he did so are false.

### Plagiarism

As previously indicated, plagiarism is "the appropriation of another person's ideas, processes, results, or words without giving appropriate credit." Dr. Sanders was questioned during his deposition about the allegations of plagiarism he made against Dr. Croce and his coauthors. His answers<sup>8</sup> made clear that he had made the allegations without actually knowing whether Dr. Croce was involved in creating these questioned texts for publication.

No evidence that I have seen indicates that Dr. Croce authored any of the allegedly plagiarized text, and Dr. Sanders confirmed he has no such information. Accordingly, if Dr. Croce was not involved in the production of the questioned text nor directed its wording, then Dr. Sanders' accusations that Dr. Croce engaged in plagiarism are false. Dr. Sanders had no basis for making, against Dr. Croce personally, "claims of falsified data and plagiarism directly to scientific journals where more than 20 of Dr. Croce's papers have been published..." which Dr. Sanders reportedly called a "reckless disregard for the truth."<sup>9</sup> (NYT article). Dr. Sanders also appeared to have no

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<sup>7</sup> Dr. Croce addressed in his deposition the accusations raised by Dr. Sanders and the NYT:

Q: ... So, first of all, before we look at some specifics in the document, just in your own words why did you file a lawsuit against Dr. Sanders? A. Because I was accused of doing things that I never did, and my reputation has been assaulted and -- by a lot of lies, and so for a scientist a reputation is enormously important and I felt extremely bad that my reputation was assaulted when I did all the time all my jobs... I always believe in integrity of science and so I felt that this was an attack on my reputation and I think on science because the way that's been done has been very disgraceful... [t]he accusation by The New York Times and Dr. Sanders.  
(Croce 3/27/2019 deposition, p. 12-13)

<sup>8</sup> An Exhibit 73 was presented to Dr. Sanders during his deposition, a compilation of all of the accusations of plagiarism he made against Dr. Croce. Dr. Sanders admitted that, except for the those identified as #1 and #11 (whose authors are specifically identified therein), and #9 (that was admittedly authored by Dr. Gasparini), he did not know who authored texts in question: "Q: Okay. Because other than for number 9, 11 and 1 manuscripts identified in Exhibit 73, you don't know who wrote the allegedly plagiarized text, I assume you don't know whether or not Dr. Croce did? A: Correct." (Sanders 3/28/2019 transcript, p. 147). Dr. Sanders also said that he had not made any effort to determine who actually authored the allegedly plagiarized text. (Sanders 3/28/2019 transcript, p. 147-148)

<sup>9</sup> Dr. Sanders confirmed in his deposition that he said that to Mr. Glanz. (Sanders 3/28/2019 deposition, p. 198-199)

basis for reportedly “alleging that Dr. Carlo Croce, a prominent cancer researcher at Ohio State University, falsified data or plagiarized text in more than two dozen articles Croce has authored...” [and stated himself] “The fact that they're getting (grants) having engaged in this activity means somebody else who is honest is not receiving them.”<sup>10</sup> (*USAT* article)

### Research Misconduct

Because I have seen no evidence that Dr. Croce did engage in falsification or plagiarism, he could not have engaged in research misconduct, which requires more than falsification or plagiarism. To constitute research misconduct, one must first have engaged in falsification, fabrication or plagiarism in proposing, performing, reviewing or reporting research results, committed intentionally, knowingly or recklessly, been a significant departure from accepted practices of the relevant research community, and not been the result of an honest error.

None of that had occurred here from the evidence that I have seen. None of the evidence suggests that Dr. Croce did falsify, fabricate or plagiarize any research result, and intentionally, knowingly or recklessly report any falsified or plagiarized research results. His conduct, in relying upon his laboratory personnel and others, was consistent with the commonly accepted practices of the relevant research community; nothing I have seen about the manner in which Dr. Croce apparently conducted himself could constitute research misconduct as defined by both the PHS/ORI and OSU.

In fact, based on the evidence produced for the extensive OSU inquiry into Dr. Sanders’ many allegations over the past two years, including interviews and formal statements by the relevant witnesses and coauthors of the numerous papers (see list in Exh. 3), there appears to have been no basis to make allegations of research misconduct against Dr. Croce himself.

### Conclusion

In summary, it is my opinion that Dr. Sanders purposefully sought reporters who would make public his allegations of falsification and plagiarism in many of Dr. Croce’s publications, finally being interviewed in March 2017 by *NYT* and *USAT* reporters, who published his statements, alleging that Dr. Croce had engaged in falsification, plagiarism and research misconduct. Dr. Sanders then tweeted openly and linked his Purdue laboratory website to these newspaper reports. However, based upon the extensive materials I have reviewed, these allegations by Dr. Sanders against Dr. Croce appear to me to be false; I have seen no evidence to support them as possible research misconduct by Dr. Croce himself.

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<sup>10</sup> Dr. Sanders confirmed this statement in his deposition that he had in form or substance said something like that. (Sanders 3/28/2019 deposition, p. 155-156)



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I would be happy to answer any questions about this expert opinion.

Sincerely,

A handwritten signature in blue ink that reads "Alan R Price". The signature is written in a cursive, flowing style.

Alan R. Price, Ph.D.  
Price Research Integrity Consultant Experts  
Former Associate Director of the U.S. Office of Research Integrity

June 27, 2019

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**APPENDIX FOR ALAN R. PRICE EXPERT REPORT**

EXH. 1      Curriculum vitae of Alan R. Price

EXH. 2      List of Case Documents Reviewed, Provided by Legal Counsel for Dr. Croce

EXH. 3      List of Admissions of Responsibilities by Croce Coauthors for Images and Texts

# **Exhibit 1**

**ALAN R. PRICE, Ph.D.**  
**Curriculum vitae**

**PERSONAL:**

Born: January 15, 1942, in Pontiac, Michigan – Alan Roger Price  
 Married: July 14, 1962, Katherine Ralph, four children, eight grandchildren

**EDUCATION:**

Florida State University	1960-64
B.S. (Chemistry, <i>summa cum laude</i> )	1964
University of Minnesota	1964-68
Ph.D. (Biochemistry, minor Organic Chemistry)	1968
Michigan State University, Biochemistry Department Postdoctoral Research Fellow	1968-69
University of Copenhagen, Division of Biological Chemistry B Sabbatical research, Copenhagen, Denmark, Europe	1976-77

**PROFESSIONAL APPOINTMENTS:**

Assistant Professor and tenured Associate Professor Department of Biological Chemistry, Medical School University of Michigan, Ann Arbor, Michigan	1970-87
Assistant Dean for Research Development Medical School, University of Michigan	1978-81
Assistant and Acting Associate Vice President for Research University of Michigan	1981-87
National Institutes of Health, Bethesda, Maryland	1987-92
National Institute on Aging, Genetics Program Officer	1987-88
Office for Protection from Research Risks AIDS Unit Assurance Coordinator	1988-89
Office of Scientific Integrity Senior Scientist and Assistant Director	1990-92
U.S. Public Health Service, Rockville, Maryland	1992-2006
Office of Research Integrity:	
Chief, Investigations Branch	1992-99
Acting Director, Div. of Investigative Oversight	1999-2000
Associate Director for Investigative Oversight	2000-2006 retired

<b>Price Research Integrity Consultant Experts (consulting company)</b>	2006 to date
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**AWARDS OF PROFESSIONAL OR EDUCATIONAL SIGNIFICANCE:**

Full-paid 4-year scholarship from Continental Baking Company	1960-64
Basic Studies Honors Program, Florida State University	1960-62
Outstanding Baking Science Student	1961-62
Phi Eta Sigma National Freshman Honorary	1961
Phi Kappa Phi National Honorary	1964
Phi Beta Kappa National Honorary	1964
National Institutes of Health Traineeship, Univ. of Minnesota	1964-65
National Science Foundation Graduate Fellow	1965-68
National Institutes of Health Postdoctoral Fellow, Michigan State	1966-69
Sigma Xi National Honorary and Research Award	1969
University of Michigan Distinguished Service Award	1973
Josiah Macy Jr. Foundation Faculty Scholar Award, for sabbatical leave in Copenhagen, Denmark	1976-77
American Council on Education Fellow in Academic Administration, University of Michigan	1980-81
Florida State University "Grad Made Good" ODK award	1992

**PROFESSIONAL SOCIETY MEMBERSHIPS:**

Univ. of Minnesota Biochemistry Club (President in 1967)	1964-68
American Association for Advancement of Science	1965-90
American Society for Microbiology	1971-87
Applied Research Ethics National Association	1986-89
American Society for Biochemistry and Molecular Biology, in the Federation of American Societies for Experimental Biology (elected member)	1975-2005

**GOVERNMENT AWARDS:**

NIH Cash Award for special OSI projects leadership	1991
NIH Director's Award, for outstanding performance	1992
PHS Cash Award for organizing Plagiarism Conference	1993
PHS Outstanding DRI / ORI Team Performance Award	1996
PHS Special Cash Award for Outstanding Performance	1997
PHS Outstanding ORI Team Performance Award	1999
PHS Outstanding DIO / ORI Team Performance Award	2000
Assistant Secretary for Health Special Recognition Award	2000
PHS Outstanding DIO / ORI Team RRTA Performance Award	2002

[NOTE: The Office of Scientific Integrity (OSI) was based at the National Institutes of Health (NIH), and the Office of Research Integrity (ORI) was part of the U.S. Public Health Service, under the Office of the Assistant Secretary for Health, with NIH in Department of Health and Human Services.]

**PROFESSIONAL CONSULTING AND TEACHING ACTIVITIES SINCE 2006:**

Following my 17 years of service at the University of Michigan in Ann Arbor (1970-1987) — as a teaching and research professor, as well as a decade as a senior research administrator in the Medical School and the University as a whole — and following my additional 19 years of service for the Federal Government in Washington, D.C., and Rockville, Maryland (1987-2006) — as a research grant and policy administrator at the National Institutes of Health (NIH) and as a top-level research misconduct investigator for the Office of Research Integrity (ORI) (see my detailed duties and accomplishments described below), I then chose to retire in April 2006 from full-time metro-work to the great Hill Country of Austin, Texas. There I created and registered my own professional advisory/consulting firm to continue to use my 4 decades of academic and federal expertise: Price Research Integrity Consultant Experts (P.R.I.C.E.).

**Price Research Integrity Consultant Experts** is a company I created in Texas in 2006 to advertise and to make available nationwide and worldwide my expert services to those institutions and individuals in need of assistance in understanding the regulations, policies, and practices that govern research misconduct investigations and standards for research integrity. I provide advice, analyze allegations and institutional policy problems, investigate specific allegations, evaluate responses to allegations and reports, write analytical reports with my professional opinions, and testify at hearings or trials if required. My clients are often legal counsels, individual complainants (whistleblowers), respondents who have been wrongly charged or wrongly convicted, and institutional officials, including Research Integrity Officers (RIOs) and counsels. I offer seminars and small group educational programs about such matters, including my major cases in ORI.

I have provided expert investigative/advisory services on policies and investigations to many universities/research institutes on policies/investigations related to research integrity/misconduct including: Department of Justice USA, University of Texas at Austin, University of Pennsylvania, University of Colorado Denver, Johns Hopkins University, Texas State University, St. Jude Children's Research Hospital, Stanford Univ., Rowan University, Rice University, Ohio University, Ohio State University, and Drexel University.



Price Research Integrity Consultant Experts (continued):

In addition, I have provided since 2006 confidential expert consulting and advisory services to individual professionals at many institutions, including: Yale University, Utah State University, University of Washington, University of Tulsa, University of Texas at Austin, University of Rhode Island, University of Pittsburgh, University of North Carolina at Charlottesville, University of Nebraska, University of Missouri, University of Minnesota, University of Massachusetts at Lowell, University of Maryland at Baltimore, University of Louisville, University of Kentucky, University of Florida, University of Delaware, University of Connecticut Health Center, University of California at San Diego, University of California at Los Angeles, University of California at Berkeley, The Veterans Administration Medical Centers in Brooklyn, in Eastern Colorado, and in Pittsburgh, Syracuse University, St. Lukes Hospital, Rush University, Rowan University, Path Medical Center, Ohio State University, Northwestern University, National Institutes of Health Intramural Program, Mt. Sinai Medical Center in New York, Michigan State University, Mayo Clinic, M.D. Anderson Cancer Center, Massachusetts Institute of Technology, Massachusetts General Hospital, Kansas University, Hampton University, George Washington University, Fred Hutchinson Cancer Research Center, Emory University, Embry-Riddle Aeronautical University, Duke University Medical Center, Danbury Hospital, Cornell University, City of Hope Medical Center, Case Western Reserve University, California State University at Los Angeles, and California Institute of Technology.

Furthermore, since 2006, I have presented several invited seminars for faculty and research staff and talked in graduate student courses at the University of Washington, University of Texas Medical Branch at Galveston, University of Texas at Austin, University of Minnesota, University of Houston, University of Arkansas for Medical Sciences, Roswell Park Cancer Institute, Massachusetts Society for Medical Research, and the Office of Research Integrity (ORI) Research Integrity Officers (RIO) Boot Camp and The ORI at 20: Research Integrity Leadership Conference, as well as for a webinar and four publication ethics short-courses for the Council of Science Editors. See P.R.I.C.E. Website: [www.researchmisconductconsultant.com](http://www.researchmisconductconsultant.com)

**MAJOR ADMINISTRATIVE ACCOMPLISHMENTS IN FEDERAL / UNIVERSITY POSITIONS:**

My administrative responsibilities and accomplishments have built upon my faculty research, research administrative expertise, and interpersonal communication skills, and focused on leadership and service for scientists and officers in research, program management, and institutional ethical, regulatory responsibilities for 17 years at a university and 19 years within the Federal Government.

**Federal Government Positions:****Office of Scientific Integrity / Office of Research Integrity:**

I served in 1990-1992 as Senior Scientist/Assistant Director, Office of Scientific Integrity (OSI), Office of the Director, National Institutes of Health, then as Chief of Investigations Branch A, Division of Research Investigations (DRI), Office of Research Integrity (ORI), United States Public Health Service (PHS) in the Department of Health and Human Services of the Federal Government.

## **MAJOR ADMINISTRATIVE ACCOMPLISHMENTS IN FEDERAL / UNIVERSITY POSITIONS:**

### **Federal Government Positions:**

#### **OSI/ORI (continued):**

I served as a senior official in ORI from 1992 until 2006.

As Assistant Director for OSI's Division C, I was responsible for managing the U.S. Public Health Service system for institutional assurance of compliance with PHS's misconduct regulations, with my review of institutional policies and procedures. Furthermore, I developed and implemented PHS policies for (1) amended assurances for small organizations unable to avoid conflicts of interests; (2) temporary restricted awards for non-assured institutions; and (3) annual reports on institutional activities and assurance updates.

As Assistant Director for OSI and its Investigative Division A, later the ORI Investigations Branch A, my primary responsibility was the organization of cases and the structuring of OSI/ORI inquiries and investigations into alleged scientific misconduct at major research institutions. I trained and supervised several professional caseworkers in their misconduct investigation activities, as well as conducting my own investigations and writing official ORI reports for the NIH; Alcohol, Drug Abuse and Mental Health Administration (ADAMHA); and Office of the Assistant Secretary for Health.

As Acting Director of ORI's Division of Investigative oversight (DIO) and then ORI Associate Director for Investigative Oversight, from 1999 to 2006, I reviewed, criticized, and wrote hundreds of evaluative reports on investigations conducted by universities and research centers. I oversaw and approved the similar activities by the eight senior scientist-investigators with six administrative staff members (paralegal, database manager, file clerks, writer-editor, and administrative assistant).

Additionally, I worked on research misconduct cases conjointly with the Office of Inspector General of the National Science Foundation (NSF). Many of our 750 cases involved major evidence of scientific misconduct (plagiarism, falsification, or fabrication of research results). Interactions with university and PHS institute and agency officials (including answering their questions, arranging visits, asking them to sequester original notebooks for investigation, and evaluating their reports) were a sensitive and important aspect of my responsibilities for ORI. In other areas, I organized and made presentations at ORI's national workshops: to educate research integrity officers and other university officials on ORI's investigative and assurance procedures; to foster interactions with editors of biomedical journals; and to encourage national interchanges on issues involving plagiarism or "curbstoning" by survey interviewers. I have also given formal talks at many university symposia and at national conferences, as well as international meetings across the Western Hemisphere.

#### **Office for Protection from Research Risks at the National Institutes of Health:**

**MAJOR ADMINISTRATIVE ACCOMPLISHMENTS:****Federal Government Positions:****OPRR at NIH (continued):**

In 1988-1999, I was the Assurance Coordinator and the chief administrator for the new AIDS Unit in NIH's Office for Protection from Research Risks (OPRR). I was responsible for negotiating institutional Single Project Assurances with extramural institutions, for protection of human subjects in AIDS research supported by NIH, ADAMHA, Centers for Disease Control (CDC), etc. I had daily communications with university officials and Institutional Review Board chairpersons about their meeting the requirements of the PHS regulations, particularly in regard to the informed consent document proposed for their PHS application research, and in regard to the new PHS policy for informing those tested of their HIV-serostatus. I also organized an expert panel for the OPRR Director to advise the Secretary of the Department of Health and Human Services on the ethics of a sensitive proposal for AIDS research using prisoners.

**National Institute on Aging at the National Institutes of Health:**

In my first year at the NIH, 1987-1988, I was the Program Officer responsible for all genetics research applications and grants in the National Institute on Aging (NIA), under the Biomedical Research and Clinical Medicine Division's Molecular and Cell Biology Branch. My NIA portfolio included about 100 grants on genome cloning and gene expression directed toward an understanding of the basic nature of aging. In addition to working with the scientists in the field and the NIH study sections and NIA Advisory Council, I wrote a Program Announcement on Sex Chromosomes and Aging, in follow-up to our Conference on Gender and Longevity. I coauthored a review article on Mutation, Cancer and Aging. In addition, I developed a DBASE III+ data base for tracking the Branch's applications and grants, including the ability to search for key words and generate reports for the NIA Director and Congress on specific areas (such as the use of recombinant DNA technology in biomedical research on aging).

**University of Michigan Positions:**

My positions in research administration at the University of Michigan, Ann Arbor, during the prior decade (1977-1987), were within the Medical School Dean's Office as Assistant Dean for Research Development, and in the University's Office of the Vice President for Research as Assistant and Acting Associate Vice President, including the primary responsibility for management of the review and award process for pilot research or equipment grants.

I had the delegated responsibility for the assurances and oversight monitoring for sensitive biosafety concerns at the University: human and animal subjects (with NIH OPRR), recombinant DNA, chemical and biological hazard liaison, radioisotopes, etc. My additional assignments involved the coordination for the University on other sensitive public issues (see below).

## **MAJOR ADMINISTRATIVE ACCOMPLISHMENTS:**

### **University of Michigan Positions (continued):**

Some of my major University of Michigan administrative responsibilities were, and accomplishments are:

#### Management of Research Funding Requests (1978-81 and 1982-87):

I coordinated for the Dean and the Vice President the review and decision-making process for the NIH Biomedical Research Support Grants, and the Preliminary Research, Research Maintenance, and Research Equipment accounts (about \$1 million in total annually).

#### Conflicts of Interest and Commitment Task Force Report (1984-85):

I created for three Vice Presidents, and chaired, the University Task Force to develop the new Policy Statement on Avoidance of Conflicts of Interest and Commitment for the University faculty and staff.

#### Unit for Laboratory Animal Medicine Review and Search (1984-85):

I wrote the charge for, and served on, the review and search committee for the Dean and the Vice President, to select the new Director of the University's Unit for Laboratory Animal Medicine.

#### Radiation Control Service Review and Search (1985-86):

I wrote the charge and recruited the members for (and served on) the review and search committee for the Vice President, to select the new Director of the University's Radiation Control Service.

#### Radiowaste Management Plans (1985-87):

I represented the Vice President for Research's Office and authored the report of the committee which recommended a facility on campus to process and store its radioactive research wastes. I represented the University as liaison to the State Governor's Radioactive Waste Control Committee, educating the public and seeking a State disposal site.

#### Research Excellence Fund Proposal on Protein Design (1985-86):

I authored the University proposal to the State's Research Excellence and Economic Development Fund, focusing on our faculty's strengths in Protein Engineering and Design (funded at \$ 0.9 million).

#### Center for Molecular Genetics (1980-87):

I worked with a group of fifty faculty from across the Campus who were experts in molecular genetics, to organize a retreat, write a proposal for the University's Thurnau Trust competition, and

## **MAJOR ADMINISTRATIVE ACCOMPLISHMENTS:**

### **University of Michigan Positions (continued):**

#### CMG at UMI (continued):

create a Vice Presidential Center for Molecular Genetics, to foster this area of biotechnology in the University and the State of Michigan, and to help recruit top faculty and postdoctoral and graduate students to the University of Michigan.

#### Michigan Technology Council Biomedical Committee (1981-87):

I chaired for two years the university/industry liaison group of scientists and administrators, focused on biotechnology and its commercialization in Ann Arbor and the State of Michigan.

#### Animal Research Issues Group (1985-87):

I created and chaired for four Vice Presidents a cooperative staff group to coordinate the University's internal and external positions on issues related to the humane use and care of animals research. Its members represented Public Relations, State and Community Relations, Lab Animal Medicine, Security, and faculty of our Statewide Michigan Society for Medical Research (I was on its Board). Additionally, I organized a meeting with the local and State humane societies, and I wrote responses to concerned citizens about the University's research using animals. I coordinated recruitment and selection of the outside members of the University's Committee on Use and Care of Animals.

Furthermore, I helped to write the University's Animal Assurance for submission to NIH OPRR. I participated in several national conferences under the OPRR, the Physicians for Responsibility in Medicine and Research (PRIM&R), and the National Association for Biomedical Research (NABR) on humane use of animals in research. I hosted the local NABR branch at the University of Michigan). I gave a talk describing our University of Michigan animal management system at an Applied Research Ethics National Association (ARENA) meeting, which was published in ARENA's newsletter and in *Grants Magazine*.

#### Committee of Human Subjects Review Committees' Chairpersons (1981-87):

I chaired, for the Vice President for Research, the University's central "appeals and policy committee" for protection of human subjects in research, consisting of the chairpersons of the twelve school/college Institutional Review Boards. I wrote the University's Assurance for Human Subjects protection for submission to NIH OPRR.

#### Integrity of Scholarship and allegations (1984-86):

I recommended to the Vice Presidents, created, and served on a Task Force on Integrity in Research,

## **MAJOR ADMINISTRATIVE ACCOMPLISHMENTS:**

### **University of Michigan Positions (continued):**

#### Integrity of Scholarship and allegations (continued):

coordinating its report and review/approval process through the various University channels. I also confidentially advised faculty and students about misconduct (plagiarism) directed against them, and I conducted an investigative assessment of a graduate student's allegation.

#### Other Sensitive Issues (1978-87):

1. When a fired employee in radiation protection leveled charges of mismanagement, I structured an investigation for the Vice President, and I followed up on the report to clear the accused and to correct any deficiencies.
2. When faculty who did unclassified or classified research for the Department of Defense (DOD) were publicly "attacked," I worked with them, their deans, and the safety officer to ensure that their academic freedom to do appropriate research was maintained. In 1983 I authored for the Research Policies Committee an historical report on our non-classified DOD research.
3. When the issue of nonclassified/classified DOD research spilled over into a local city referendum, to establish a "nuclear-free zone," I served as University coordinator, suggesting faculty who might be interested in forming a citizens' committee on academic freedom and also organizing a faculty-briefing for the University Regents on the policy issue.
4. As an elected member of the University's Collegiate Institute for Values and Science (CIVS), and a member of the CIVS Executive Board in 1985-87, I participated in its monthly dinner meetings on ethics and values as applied in university research settings. I served as a Board member of the local community/academia Conference on Teaching of Ethics and Values which sponsored annual symposia on global values. I also gave a number of invited talks to local groups on ethical values in science (churches, School for Ministers, Sigma Xi banquet, Businessmen's Dinner Club, etc.).
5. As requested by the University of Michigan President, for a National Academy of Sciences Committee that he served on, I wrote in 1983 a report on the impact of export control regulations on scientific freedom at Michigan.
6. For the University's Recombinant DNA Monitoring Committee, I was responsible for recruiting the faculty chairman and the public or technical members, and for reviewing their annual report for the University's Regents.



**UNIVERSITY COMMITTEES, ADMINISTRATIVE SERVICE, AND RELATED ACTIVITIES:****University of Michigan Positions (continued):**Teaching Students and Supporting University Education Programs:

As Assistant and Associate Professor of Biological Chemistry at the University of Michigan Medical School, each year I taught courses to students in medicine, nursing, dentistry, undergraduate college and graduate school. In 1973, I was awarded one of six University Distinguished Service Awards for my teaching and research efforts.

I was co-creator in 1983-86 of a new Biochemistry course for the innovative Inteflex Program, an integrated B.S./M.D. six-year degree program.

As Assistant Dean in the Medical School in 1980-81, I was co-originator of an NIH-funded Medical Scientist Training Program, to support fifteen joint M.D./Ph.D. students at Michigan.

**Departmental Committees:**

Faculty Research Seminars Committee Department of Biological Chemistry	1970-71
Plato IV - Computer-Assisted Instruction Committee Department of Biological Chemistry	1971-72
Cellular and Molecular Biology Program Faculty Rackham School of Graduate Studies	1971-79
Social Committee Chairman Department of Biological Chemistry	1971-72
Biochemistry Staff Photographs Committee Chairman Department of Biological Chemistry	1972-76
Teaching Resources Committee Chairman Department of Biological Chemistry	1972-78
Chairman's Advisory Committee Department of Biological Chemistry	1972-73 1974-75
Biochemistry Preliminary Exam Committee Department of Biological Chemistry	1972-73

**UNIVERSITY COMMITTEES, ADMINISTRATIVE SERVICE, AND RELATED ACTIVITIES:****Departmental Committees (continued):**

Alumni Newsletter Chairman	1971
Department of Biological Chemistry	1973-76 1978-79
Admissions Committee for Graduate Students	
Department of Biological Chemistry	1973-74
Honors and Awards Committee	
Department of Biological Chemistry	1975-76
Recruitment Brochure Committee	
Department of Biological Chemistry	1978
Supplemental Graduate Student Support Committee	
Chairman, Department of Biological Chemistry	1978-80

**Medical School Committees:**

Integrated Premedical-Medical Program Faculty	1973-76
Recombinant DNA Methodology Grant Request	
Ad Hoc Review Committee, Medical School	1976
Coordinator for Renewal Application to NIH of the Cellular and	
Molecular Biology Program Training Grant, Medical School	1978

**University Committees:**

Seminar in Academic Administration -- Alumnae Council-sponsored	
discussions with senior University administrators	1978
Metabolism Preliminary Examination Committee	
Chairman, Cellular & Molecular Biology Program	1978
Rackham Minority Fellowship Selection Committee	
Institute of Science & Technology, Rackham Graduate School	1979
Research Advisory Council (administrative)	
for the Vice President for Research	1980-85

**UNIVERSITY COMMITTEES, ADMINISTRATIVE SERVICE, AND RELATED ACTIVITIES:****University Committees (continued):**

Research Policies Committee (faculty) for the Vice President for Research	1980-87
Medical Scientist (MD/PhD) Training Grant Program Manager and Co-Creator	1979-81
Liaison for Vice President for Research	1981-85
General Division of Health Sciences Committee	1980-86
for the Vice President for Academic Affairs as Co-Chair	1983-84
and as Liaison for the Vice President for Research	1981-85
Review Committee of Div. of Research Development and Administration for the President of the University of Michigan and for the Senate Assembly Committee on University Affairs	1980
Center for Molecular Genetics Coordinator of Meadowbrook Retreat group, Staff to Steering Committee and new Executive Committee, for the Vice Presidents for Academic Affairs and for Research	1980-87
Radiation Policy Committee (faculty & administrators) for the Vice President for Research	1980-87
University Committee on Computer Policy and Utilization (faculty) for the Vice President for Research	1980-84
University Committee on the Use and Care of Animals (faculty), and co-author of Institutional Assurance to OPRR/PHS for the Vice President for Research	1980-87
Biomedical Research Council Staff for the Medical School Dean	1978-81
Liaison for the Vice President for Research	1981-87
Committee of Chairpersons of Human Subjects Review Committees Chairman, and Author of Institutional Assurance to OPRR/PHS for the Vice President for Research	1980-87

**UNIVERSITY COMMITTEES, ADMINISTRATIVE SERVICE, AND RELATED ACTIVITIES:****University Committees (continued):**

Review Committee of University Scientific Stores for the Director of University Purchasing	1981
Biosafety Control Committee of Safety Unit Heads (Chairman) for the Vice Presidents for Finance and for Research	1981-87
University Committee on University/Industry Interactions (Michigan Research Corp.) for the Vice President for Research	1982-83
Michigan Technology Council Biomedical Committee for the Vice President for Research (Chairman)	1982-87 (1983-85)
Alumni Research Advisory Council: Coordinator and creator for the Vice President for Research	1983-84
Task Force on Integrity of Scholarship: creator and staff for the Vice Presidents for Academic Affairs and Research	1983-84
Collegiate Institute for Values and Science: Executive Committee and elected member	1983-87
Review Committee of Unit for Laboratory Animal Medicine, and Director search coordinator for Vice President for Research	1984
Review Committee of Radiation Control Service and Director search coordinator for the Vice President for Research	1985
Task Force on Conflicts of Commitment and Interest (Chairman) for the Vice Presidents for Academic Affairs and Research	1984-85
Animal Research Issues Group of University Staff (Chairman) for the Vice President for Research	1985-87

**Review Activities Outside the University:**

Reviewer of research grant proposals in Biochemistry and Molecular Biology, for the U.S. Department of Energy and for the National Science Foundation	1974-75 1978-80, 1987
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**UNIVERSITY COMMITTEES, ADMINISTRATIVE SERVICE, AND RELATED ACTIVITIES:****Review Activities Outside the University (continued):**

## Reviewer of Manuscripts for Professional Journals:

<i>Biochemistry</i>	1975-78
<i>Biochemical and Biophysical Research Communications</i>	1976
<i>Canadian Journal of Biochemistry</i>	1974
<i>Journal of Biological Chemistry</i>	1971, 1978
<i>Journal of Virology</i>	1972-81
<i>Proceedings of the National Academy of Sciences</i>	1981-82

## Reviewer of Biochemistry Textbook Manuscripts for Publishers: 1971-87

John Wiley & Sons Inc.	Benjamin Inc.
Houghton Mifflin Inc.	Addison-Wesley Inc.
Saunders Company	Random House Inc.
MacMillan Company	Scientific American Books

Ethics and Values Group Member (The William Bottum  
Community Group): Sponsoring Group Member 1986-87

Michigan Society for Medical Research  
Elected Member, State Board of Directors 1986-87

**UNIVERSITY OF MICHIGAN RESEARCH INTEREST:**

Enzymology of Deoxyribonucleic Acid Biosynthesis; Role of Unusual Nucleosides  
in Nucleic Acids; Biochemistry of Virus Infections of *Bacillus subtilis*

**RESEARCH GRANTS:****University of Michigan research grants:**

Medical School - NIH Gen. Res. Sup. Grant, "Synthesis of Uracil-Containing DNA," 1970, \$4,500

Rackham Grad. Sch. Grant, "Synthesis of Uracil-DNA in PBS1-Infected *B.subtilis*, 1970, \$5,000

American Cancer Society Inst. Grant, "Properties and Role of dTTP Nucleotidohydrolase Induced on  
Infection of *B.subtilis* by Viruses Whose DNA Contains 5-Hydroxymethyl-uracil," 1970, \$3,750

**RESEARCH GRANTS (continued)****University of Michigan research grants (continued):**

American Cancer Society Institutional Research Grant, "DNA Polymerase Induction for Viral Uracil-DNA Synthesis," 1971-72, \$3,000

Rackham Graduate School Faculty Research Grant, "DNA Polymerase Induction for Viral Uracil-DNA Synthesis," 1972, \$1,000

Michigan Memorial Phoenix Project Research Grant, "DNA and RNA Synthesis by a Unique Virus," 1973, \$3,000

American Cancer Society Institutional Research Grant, "Mechanism of Inhibition of Cultured Animal Cells by 5-Hydroxymethyl-Deoxyuridine," 1975-76, \$3,750

**Federal research grant:**

U.S. Atomic Energy Commission / U.S. Energy Research and Development Administration / U.S. Department of Energy Research Grant, "Synthesis of DNA Containing Uracil or 5-Hydroxymethyl-uracil during Bacteriophage Infection of *Bacillus subtilis*", 1970-83, \$359,388

**COMMUNITY SERVICE:**

Licensed foster parent, for 13 children, for periods of one to twelve months, for Washtenaw County's Department of Social Services and for the private Child and Family Services, Ann Arbor, Michigan	1975-80
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Parish Education Committee (Chair) and Seminar Committee for Trinity Evangelical Lutheran Church, Ann Arbor, Michigan	1980-82
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United Way Solicitation campaign, Ann Arbor, Michigan: University Area V (Research) Chairman	1984
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National Marriage Encounter of Ann Arbor, Michigan: Team member, presenting ten Couple Weekends, and Ann Arbor President, and Detroit Board Member	1978-87 1983-87
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Geneva Presbyterian Church, Rockville, Maryland: Member, Elder, Bell Choir and Speaking Chorus member, and Lector	1987-2006
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Rolling Hills Community Church, Lago Vista, Texas: Member, Chancel Choir, Liturgist, Gatekeeper, and Neighbors Helper	2006 to date
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**BIBLIOGRAPHY:****Research Publications in Scholarly Journals:****Florida Sate University Undergraduate Research:**

1. Bayfield, E.G., Young, W.E., and Price, A.R. Flour Brew Studies. VIII. Water as an Ingredient: Effect of Calcium and Magnesium Ions. *Bakers Digest* 39, No. 2, 58-64 (1965)
2. Bayfield, E.G., Young, W.E., and Price, A.R. Flour Brew Studies. IX. Some Effects of Mono-calcium Phosphate and Calcium Gluconate in Brew Water. *Bakers Digest* 39, No. 3, 47-49 (1965)

**University of Minnesota Doctoral Research:**

3. Price, A.R., and Warner, H.R. A Structural Gene for Bacteriophage T4-Included Deoxycytidine Triphosphate - Deoxyuridine Triphosphate Nucleotidohydrolase. *Virology* 36, 523-526 (1968)
4. Price, A.R., and Warner, H.R. Bacteriophage T4-Induced Deoxycytidine Triphosphate - Deoxyuridine Triphosphate Nucleotidohydrolase: Its Properties and its Role during Phage Infection of *Escherichia coli*. *Virology* 39, 882-892 (1969)

**Michigan State University Postdoctoral Research:**

5. Price, A.R., and Rottman, F. Nucleic Acids from *Saprospira grandis*: The Absence of 2'-O-methyl-RNA. *Biochim. Biophys. Acta* 199, 288-291 (1970)
6. Price, A.R., and Rottman, F. 2'-O-Methyloligoadenylates as Templates for the Binding of Lysyl Transfer Ribonucleic Acid to Ribosomes. *Biochemistry* 7, 4524-4529 (1970)

**University of Michigan Faculty Research:**

7. Price, A.R., and Cook, S.J., New Deoxyribonucleic Acid Polymerase Induced by Bacillus subtilis Bacteriophage PBS2. *J. Virol.* 9, 602-610 (1972)
8. Price, A.R., and Frabotta, M., Resistance of Bacteriophage PBS2 Infection to Rifampicin, an Inhibitor of *Bacillus subtilis* RNA Synthesis. *Biochem. Biophys. Res. Commun.* 48, 1578-1585 (1972)

**BIBLIOGRAPHY:****Research Publications in Scholarly Journals (continued):****University of Michigan Faculty Research (continued):**

9. Price, A.R., Dunham, L.F. and Walker, R.L., Thymidine Triphosphate Nucleotidohydrolase and Deoxyuridylate Hydroxymethylase Induced by Mutants of *Bacillus subtilis* Bacteriophage SP82G. *J. Virol.* 10, 1240-1241 (1972)
10. Price, A.R., and Fogt, S.M., Deoxythymidylate Phosphohydrolase Induced by Bacteriophage PBS2 During Infection of *Bacillus subtilis*. *J. Biol. Chem.* 248, 1372-1380 (1973)
11. Price, A.R., and Fogt, S.M., Resistance of Bacteriophage PBS2 Infection to 6-(p-Hydroxyphenylazo)-Uracil, an Inhibitor of *Bacillus subtilis* Deoxyribonucleic Acid Synthesis. *J. Virol.* 11, 338-340 (1973)
12. Price, A.R., and Fogt, S.M., Effect of Nalidixic Acid on PBS2 Bacteriophage Infection of *Bacillus subtilis*. *J. Virol.* 12, 405-407 (1973)
13. Dunham, L.F., and Price, A.R., Deoxythymidine Triphosphate-Deoxyuridine Triphosphate Nucleotidohydrolase Induced by *Bacillus subtilis* Bacteriophage phi e. *Biochemistry* 13, 2667-2672 (1974)
14. Dunham, L.T., and Price, A.R., Mutants of *Bacillus subtilis* Bacteriophage phi e defective in dTTP-dUTP Nucleotidohydrolase. *J. Virol.* 14, 709-712 (1974)
15. Price, A.R., Bacteriophage PBS2 Induced Deoxycytidine Triphosphate Deaminase in *Bacillus subtilis*. *J. Virol.* 14, 1314-1317 (1974).
16. Price, A.R., Hitzeman, R., Frato, J., and Lombardi, K., Rifampicin-Resistant Bacteriophage PBS2 Infection and RNA Polymerase in *Bacillus subtilis*. *Nucleic Acids Research* 1, 1497-1502 (1974)
17. Post, L., and Price, A.R., Inhibition of Bacteriophage PBS2 Replication in *Bacillus subtilis* by Phleomycin. *J. Virol.* 15, 363-371 (1975)
18. Price, A.R. and Frato, J., *Bacillus subtilis* Deoxyuridine Triphosphatase and its Bacteriophage PBS2-Induced Inhibitor. *J. Biol. Chem.* 250, 8804-8811 (1975)
19. Katz, G.E., Price, A.R., and Pomerantz, M.J., Bacteriophage PBS2-Induced Inhibition of Uracil-Containing DNA Degradation. *J. Virol.* 20, 535-538 (1976)

## BIBLIOGRAPHY:

### Research Publications in Scholarly Journals (continued):

#### University of Michigan Faculty Research (continued):

20. Neuhard, J., Price, A.R., Schack, L., and Thomassen, L., Two Thymidylate Synthetases in *Bacillus subtilis*. *Proc. Natl. Acad. Sci. U.S.A.* 75, 1194-1198 (1978)
21. Hitzeman, R.,A. Hanel, A.N., and Price, A.R., Dextran Sulfate as a Contaminant of DNA Extracted from Concentrated Viruses and as an Inhibitor of DNA Polymerase. *J. Virol.* 27, 255-257 (1978)
22. Hitzeman, R.A., and Price, A.R., Relationship of *Bacillus subtilis* DNA Polymerase III to Bacteriophage PBS2-Induced DNA Polymerase and to the Replication of Uracil-containing DNA. *J. Virol.* 28, 697-709 (1978)
23. Hitzeman, R.A., and Price, A.R., *Bacillus subtilis* Bacteriophage PBS2-Induced DNA Polymerase: Its Purification and Assay Characteristics. *J. Biol. Chem* 253, 8518-8525 (1978)
24. Hitzeman, R.A., and Price, A.R., Characterization of the *Bacillus subtilis* Bacteriophage PBS2-Induced DNA Polymerase and Its Associated Exonuclease Activity. *J. Biol. Chem.* 253, 8526-8533 (1978)
- [ Price, A.R., and Neuhard, J., Deoxyribonucleotide Metabolism in PBS2 Phage-Infected *Bacillus subtilis*: The Discovery of Deoxyuridine Triphosphate *in vivo*. (never submitted for publication)]
- [ Price, A.R., A Mutant of Bacteriophage PBS2 Defective in an Inhibitor of *Bacillus subtilis* Uracil-DNA N-glycosylase. (never submitted for publication)]

### Research Abstracts:

#### University of Minnesota Graduate School Research:

1. Price, A.R., and Warner, H.R., Bacteriophage T4 Nucleotidohydrolase. *Federation Proc.* 27, 592 (1968)

#### University of Michigan Faculty Research:

2. Price, A.R., Enzymology of Uracil-DNA Synthesis by PBS2 Phage in *Bacillus subtilis*. *Bacteriophage Meetings Abstracts*, p. 81 (1971)

## BIBLIOGRAPHY:

### Research Abstracts (continued):

#### University of Michigan Faculty Research (continued):

3. Price, A.R., A new Deoxyribonucleic Acid Polymerase Induced by Bacteriophage PBS2 During Infection of *Bacillus subtilis*. *Abstracts, Annual Meeting American Society for Microbiology*, p. 243 (1972)
4. Price, A.R., Infection of *Bacillus subtilis* by PBS2 Phage Whose DNA Contains Uracil. *Bacteriophage Meetings Abstracts*, p. 52 (1972)
5. Dunham, L.T. and Price, A.R., Deoxyribonucleotide Metabolism after  $\phi$  e Infection of *Bacillus subtilis*. *Bacteriophage Meetings Abstracts*, p. 51 (1972)
6. Dunham, L.T., and Price, A.R., Properties and Role of the dTTPase-dUTPase Induced by *Bacillus subtilis* Phage  $\phi$  e. *Bacteriophage Meetings Abstracts*, p. 23 (1973)
7. Price, A.R., *Bacillus* Phage PBS2-Induced dCTP Deaminase and dUTPase Inhibitor. *Federation Proc.* 33, 1488 (1974)
8. Price, A.R., Effects of Inhibitors of Macromolecular Synthesis after PBS2 Phage Infection. *Bacteriophage Meetings Abstracts*, p. 98 (1974)
9. Hitzeman, R.A., and Price, A.R., Properties of DNA Polymerase Induced by *Bacillus subtilis* Bacteriophage PBS2. *Federation Proc.* 36, 847 (1977)
10. Neuhaard, J., and Price, A.R., Two Thymidylate Synthetases in *Bacillus subtilis*. *Abstracts, 11th Federation of European Biochemical Societies meeting, Copenhagen, #C-6,502* (1977)

### Research Chapters in Books:

#### University of Michigan Faculty Research:

1. Price, A.R., A Bacteriophage-Induced Inhibitor of a Host Enzyme (Presented at the American Society for Microbiology's *Bacilli* Conference, Cornell University), in *Microbiology* (Schlessinger, D., ed.) p. 290-294 (1976)
2. Price, A.R., Thymidylate Phosphohydrolase from PBS2 Phage-Infected *Bacillus subtilis*. *Methods in Enzymology* 51, 285-290 (1978)

**BIBLIOGRAPHY:****Research Chapters in Books (continued):****University of Michigan Faculty Research (continued):**

3. Hitzeman, R.A., Price, A.R., Neuhard, J., and Mollgaard, H., Deoxyribonucleotide Triphosphate and DNA Polymerase in Bacteriophage PBS1-Infected *Bacillus subtilis*. (Presented at the NATO Advanced Study Institute on DNA Synthesis in Sicily), in *DNA Synthesis: Present and Future* (I. Molineaux and M. Kohiyama, eds.), Plenum Press, New York, p. 255-266 (1978)

**Federal Research Grants Administration Work:**

4. Warner, H.R., and Price, A.R. Mutations, Cancer and Aging. A Review, in a special issue of the *Journal of Gerontology* 244, 45-54 (1989)

**Miscellaneous Research Publications:****University of Minnesota Doctoral Thesis Research:**

1. Price, A.R. (Warner, H.R.), Purification and Properties of T4 Bacteriophage-Induced Deoxycytidine Triphosphate - Deoxyuridine Triphosphate Nucleotidohydrolase. A Doctoral Thesis Submitted to the Faculty, University of Minnesota (1968)

**University of Michigan Faculty Research, Graduate Student Theses and Education:**

2. Dunham, L.F. (Price, A.R.) Properties and Role of the dTTP/dUTP Nucleotidohydrolase Induced after phi e Infection of *Bacillus subtilis*. A Doctoral Thesis submitted to the Faculty, The University of Michigan (1973)
3. Hultquist, D.E., Marino, J.P., Martin, M.M., and Price, A.R., A Four-Semester Chemistry-Biochemistry Sequence for Students in Medical Training. *J.Med. Education* 51, 57-59 (1976)
4. Price, A.R., Teaching Organic and Biological Chemistry to Nursing Students, *Biochem. Education* 4, 11-12 (1976)
5. Price, A.R., Book Review of "Handbook of Biochemistry and Molecular Biology: Nucleic Acids, "Volume 1, 3rd Edition (Fasman, G.D., ed.) in *J. American Chemical Society* 98, 6422 (1977)

## **BIBLIOGRAPHY:**

### **Miscellaneous Research Publications (continued):**

#### **University of Michigan Faculty Research, Graduate Student Theses, and Education (cont.):**

6. Hitzeman, R.A. (Price, A.R.) DNA Polymerase Induced by *Bacillus subtilis* Bacteriophage PBS2. A Doctoral Thesis Submitted to the Faculty, The University of Michigan (1978)
7. Price, A.R., Synthesis of Uracil-Containing DNA by Bacteriophage PBS2 in *Bacillus subtilis*. (Presented at the American Society for Microbiology Meeting in Miami, 1980, as an Invited Seminar Speaker on "Major Modifications in Bacteriophage DNAs")

### **Research-Administrative Papers and/or Presentations:**

#### **For the University of Michigan:**

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127. Price, A.R., University Compliance with ORI's Regulations on Misconduct, a panel talk at the University of Minnesota workshop on Promoting an Ethical Research Culture" (March 9, 2005)
128. Price, A.R., The Office of Research Integrity and NIH, a panel talk for the Extramural Program Staff of the National Institute of Diabetes and Digestive Disorders and Kidney, National Institutes of Health, Bethesda, Maryland (May 11, 2005)
129. Price, A.R., Clinical research misconduct and the role of the Institutional Review Board (IRB), a panel talk for the annual meeting of the National Association of IRB Managers, Detroit, Michigan (May 20, 2005)
130. Price, A.R., Problems in dealing with Privilege and Tenure Committees in scientific misconduct investigations, a workshop for University of California System and Campuses Research Integrity Officers and Counsels (June 12, 2005)
131. Price, A.R., Responding to allegations of research misconduct, a panel talk at the University of California at Davis Conference on How to Be an Effective Research Integrity Officer, Sacramento, California (June 13, 2005)
132. Price, A.R., Best practices in dealing with inquiry and investigation committees, a panel talk at the University of California at Davis Conference on How to Be an Effective Research Integrity Officer, Sacramento, California (June 13, 2005)
133. Price, A.R., The Office of Research Integrity's findings of plagiarism, a talk at the New York University / Columbia University / St. John's University Conference on Plagiarism Across the Science Disciplines, New York City, New York (October 1, 2005)
134. Price, A.R., Research Misconduct: highlights of trends and preventing research misconduct in the laboratory, a talk at the Idaho State University Conference on Responsible Conduct of Research: Essentials for Research Success and Integrity, Pocatello, Idaho (October 20, 2005)

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135. Price, A.R., Curbstoning: research misconduct in survey research, a panel talk at the Idaho State University Conference on Responsible Conduct of Research: Essentials for Research Success and Integrity, Pocatello, Idaho (October 20, 2005)
136. Price, A.R., The Office of Research Integrity and NIH, a panel talk for the Extramural Program Staff of the National Center for Research Resources, National Institutes of Health, Bethesda, Maryland (October 28, 2005)
137. Price, A.R., ORI and integrity in clinical research, organizer and host for the Office of Research Integrity invited workshop at the Annual Meeting of the Physicians for Responsibility in Medicine and Research, Boston, Massachusetts (December 3, 2005)
138. Price, A.R., Clinical research misconduct and the role of the IRB [Institutional Review Board for Human Subjects Protection], a panel presentation at the Annual Meeting of the Physicians for Responsibility in Medicine and Research, Boston, Massachusetts (December 3, 2005)
139. Price, A.R., Cases of plagiarism handled by the United States Office of Research Integrity, *Plagiarism* 1: 1-11 (2006), available online at University of Michigan Library: <http://quod.lib.umich.edu/p/plag/5240451.0001.001?rgn=main;view=fulltext>
140. Abbrecht, P., Davidian, N., Merrill, S., and Price, A.R., The Role of the Office of Research Integrity in Cancer Clinical Trials, Chapter 13, pp. 231-239, in: *Cancer Clinical Trials: Proactive Strategies*, edited by Stanley P.L. Leong, Springer, New York, 2007
141. Soskolne, C.L., Abbrecht, P.H., Davidian, N.M., and Price, A.R., Good conduct and integrity in epidemiologic research, Chapter 13, pp. 264-282, in *Ethics and Epidemiology, 2<sup>nd</sup> Edition*, edited by Steven Coughlin, Tom Beauchamp, and Douglas Weed, Oxford University Press, 2009

#### **As Price Research Integrity Consultant Experts / Educator:**

142. Price, A.R., Research misconduct in investigator-initiated trials, talk at the Investigational New Drugs Compliance Conference hosted by the University of Arkansas for Medical Sciences, Little Rock, Arkansas (April 17, 2007)



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### **Research-Administrative Papers and/or Presentations:**

#### **As Price Research Integrity Consultant Experts / Educator (continued):**

143. Price, A.R., Major Cases of the Office of Research Integrity, and How to Protect Yourself from Research Misconduct in Your Laboratory, talks for the research ethics training courses and for the seminar for Cell and Molecular Biology Program graduate students at University of Texas at Austin, Austin, Texas (January 10, February 25, and May 29, 2008)
144. Price, A.R., Major Cases of the Office of Research Integrity, and How to Protect Yourself from Research Misconduct in Your Laboratory, a talk for the research ethics training course for Psychology and Neuroscience graduate students at the University of Texas at Austin, Austin, Texas (February 19, 2008)
145. Price, A.R., Major Cases of the Office of Research Integrity, and How to Protect Yourself from Research Misconduct in Your Laboratory, a talk for the research ethics training course for graduate students at the University of Texas Medical Branch, Galveston, Texas (May 21, 2008)
146. Price, A.R., ORI Clinical Fraud Cases including Plagiarism, and Research Misconduct cases and the ORI, talks for faculty, students and staff of the Arkansas Children's Hospital Research Institute at The University of Arkansas for Medical Sciences, Little Rock, Arkansas (December 15, 2009)
147. Price, A.R., Career Choices and Research Integrity in Biochemistry, talk for the Biochemistry Graduate Student Seminar, University of Texas at Austin, Austin, Texas (February 8, 2011)
148. Price, A.R., The Office of Research Integrity and Misconduct Cases - Interactions with Journal Editors, a webinar presentation for the Council of Science Editors' Ethics Education Committee, online from Pontiac, Michigan, broadcasting countrywide on a panel of experts (August 23, 2011)
149. Price, A.R., ORI cases and How to Protect Yourself from Research Misconduct in Your Laboratory, the first talk for their NSF Distinguished Speaker Seminar Series on Experiencing Ethics, University of Houston, Houston, Texas (November 7, 2011)
150. Price, A.R., Scenarios for Graduate Students in Research Ethics, talk for the Computational Physiology Graduate Students, University of Houston, Houston, Texas (November 7, 2011)
151. Price, A.R., ORI cases and How to Protect Yourself from Research Misconduct in Your Laboratory, talk for the faculty of at the Stem Cell Research Division of the University of Washington Medical School, South Lake Union, Seattle, Washington (May 18, 2012)



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152. Price, A.R., and Daroff, R. (former Editor-in-Chief of *Neurology*), Model for Editor and ORI Cooperation in Handling the Allegation, Investigation, and Resolution of a Difficult Case of Research Misconduct (against Dr. James Abbs, University of Wisconsin), talk for Council of Science Editors Annual Meeting's Short Course on Publication Ethics, Seattle, Washington (May 19, 2012)
153. Price, A.R., The Federal Response to Research Misconduct, 1980-present, and the Construction of 42 CFR 50 Part A and subsequently 42 CFR 93, keynote speech for the ORI at 20: Reassessing Research Integrity: A Leadership Conference, Baltimore, Maryland (April 3, 2013)
154. Price, A.R., Public research misconduct cases in Texas: what we can learn from them and how to avoid such a case in your lab, an invited talk for faculty and students of the University of Houston, Houston, Texas (April 29, 2013)
155. Price, A.R., Research misconduct and its federal regulation: the origin and history of the Office of Research Integrity – with personal views by ORI's former Associate Director for Investigative Oversight, *Accountability in Research* 20(5-6): 291–319 (2013)  
<http://www.tandfonline.com/doi/pdf/10.1080/08989621.2013.822238#.UkmnjZ0o5eU>
156. Price, A.R., Public research misconduct cases in Texas: what we can learn from them, an invited talk for biochemistry graduate students of the University of Texas, Austin, Austin, Texas (October 14, 2013)
157. Price, A.R., Editor and ORI Cooperation and Issues of Fairness in Handling Allegations, Investigation, and Resolution of Difficult Cases of Research Misconduct and Retraction, talk for Council of Science Editors Annual Meeting's Short Course on Publication Ethics, San Antonio, Texas (May 3, 2014)
158. Price, A.R., and Daroff, R., Historical Model for Editor and Office of Research Integrity Cooperation in Handling Allegations, Investigation, and Retraction in a Contentious (Abbs) Case of Research Misconduct, *Accountability in Research* 22(2): 63-80 (2015)  
<http://www.tandfonline.com/doi/full/10.1080/08989621.2014.901894>
159. Price, A.R., Editor, RIO, and ORI Cooperation in Handling Allegations, Investigations, and Resolution of Cases of Research Misconduct, talk for Council of Science Editors Annual Meeting's Short Course on Publication Ethics, Denver, Colorado (May 15, 2016)

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**As Price Research Integrity Consultant Experts / Educator (continued):**

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